



## KEYED NOTES:

- 1** INSTALL BALANCING VALVE WITH MINIMUM OF 3 STRAIGHT PIPE DIAMETERS UPSTREAM AND 1 STRAIGHT PIPE DIAMETER DOWNSTREAM.
- 2** MAINTAIN 6" MINIMUM CLEARANCE ABOVE TEST PLUG TO ALLOW GAUGE TO BE INSERTED. DO NOT COVER PLUG WITH INSULATION.
- 3** INSTALL SWING JOINTS AT COIL CONNECTIONS.
- 4** CONNECT BRANCH LINES FROM COIL INTO TOP OR SIDE OF SUPPLY AND RETURN MAINS. CONNECTING INTO BOTTOM OF MAIN IS NOT ACCEPTABLE.
- 5** INSTALL MANUAL AIR VENTS IN SUPPLY AND RETURN COIL BRANCH PIPING AS FOLLOWS:  
A) IN PIPING HIGH POINT WHEN PIPING IS ABOVE MAIN.  
B) CLOSE TO COIL WHEN PIPING IS NOT ABOVE MAIN (SIDE CONNECTION).
- 6** INSTALL COIL SO AIR PASSES THROUGH FINS IN PROPER DIRECTION NOTED ON COIL.

## HOT WATER COIL PIPING DETAIL

(CONSTANT FLOW THROUGH COIL, FAIL TO FULL HEAT)

SCALE: NONE

### NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. SEE SHEET 10 FOR STACKED COIL PIPING.
2. SEE SHEET 11 FOR DESIGN NOTES.
3. APPLICATION: WHEN CLOSE TEMPERATURE CONTROL IS REQUIRED, AND FOR OUTSIDE AIR PREHEAT.

DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

1	6-14-03	U	REVISED TO COMPLY WITH DRAFTING MANUAL. ADDED STRAINER & KEYED NOTE 6. DWS NO. WAS ST6121.				RP	AB	JM	GG	TO	
NO	DATE	CLASS	REV	DESCRIPTION				DWN	DSGN	CHKD	SUB	APP
<b>FACILITY &amp; WASTE OPERATIONS</b> <b>DESIGN ENGINEERING CONSTRUCTION SERVICES</b>												
<b>ENGINEERING STANDARDS MANUAL</b>												
HOT WATER COIL PIPING DETAIL CONSTANT FLOW, FAIL TO FULL HEAT								DRAWN: R. PEARSON DESIGN: A. BRIDGE CHECKED: G. GREWAL DATE: 6-28-99				
BLDG X SUBMITTED: DISCIPLINE: POC: GURINDER GREWAL								TA-X APPROVED FOR RELEASE: STANDARDS MANAGER: TOBIN ORUCH				
<b>Los Alamos NATIONAL LABORATORY</b> P.O. Box 1663 Los Alamos, New Mexico 87545								SHEET <b>6</b> OF <b>11</b>				
CLASSIFICATION: U PROJECT ID:								REVIEWER: LARRY BAYS DRAWING NO:				
<b>CHAPTER 6</b>								<b>ST-D30GEN-2</b>				
								REV <b>1</b>				